

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12397 (1988): Metallic Dissecting Trays [PGD 22:
Educational Instruments and Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**SPECIFICATION FOR
METALLIC DISSECTING TRAYS**

1. Scope — Covers the requirements of aluminium and stainless steel, dissecting trays for use in educational institutions for performing biological experiments.

2. Material — The dissecting trays shall be made of aluminium of Grade S1B, condition 0 conforming to IS : 21-1975 'Specification for wrought aluminium and aluminium alloys for manufacture of utensils (*third revision*)' or stainless steel sheets of grade X05Cr17 of IS : 5522-1978 'Specification for stainless steel sheets and coils (*first revision*)'.

3. Dimensions

3.1 Depth of the dissecting trays shall be not less than 40 mm and not more than 75 mm.

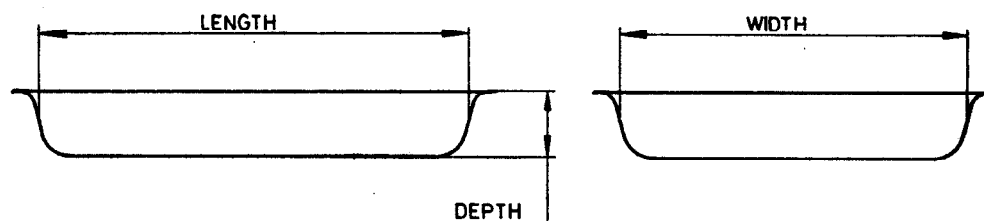
3.2 Length and width shall be proportionate and convenient to use.

3.3 Thickness of the sheet used for manufacturing of trays shall be such as to impart sufficient strength.

3.4 Some recommended sizes and minimum thicknesses are given in Table 1.

TABLE 1 DIMENSIONS FOR DISSECTING TRAYS

All dimensions in millimetres.



Length ± 5 mm	Width ± 3 mm	Depth	Sheet Thickness	
			Aluminium	Stainless Steel
286	229	44	0.08 ± 0.1	0.40 ± 0.04
362	289	57	0.08 ± 0.1	0.40 ± 0.04
413	327	57	0.08 ± 0.1	0.40 ± 0.04
467	359	67	0.09 ± 0.1	0.45 ± 0.05
500	375	72	1.00 ± 0.1	0.45 ± 0.05

3.5 The figure is indicated only to illustrate the dimensions and the design detail is left to the discretion of manufacturer so long as the specified dimensions are maintained.

4. Designation — The dissecting trays shall be designated by its length × width × depth, material and number of this standard.

Example:

Dissecting Tray 286 × 229 × 44 — Aluminium IS : 12397

Adopted 10 May 1988

© December 1988, BIS

Gr 2

5. General Requirements

5.1 Construction — Dissecting trays shall be pressed from aluminium or stainless steel sheets with smooth flange or rim.

5.2 Base shall be reasonably flat when tested with a straight edge placed in any position.

5.2.1 It shall show no tendency to tilt when pressed at any point on the base when placed on reasonably flat surface.

6. Workmanship and Finish

6.1 Trays shall be finished smooth and shall be free from sharp edges, burrs, cracks and other manufacturing defects.

6.2 When dissecting trays are manufactured from aluminium sheets, these shall be provided with an anodic film of 5 μm conforming to IS : 1868-1968 'Anodic coatings on aluminium and its alloy (*second revision*)'.

7. Marking — Each dissecting tray shall be marked at the bottom or on flange with the following:

- a) Manufacturer's name or trade-mark, and
- b) Designation.

7.1 Standard Marking — Details available with the Bureau of Indian Standards.

8. Sampling — Unless otherwise agreed to between the buyer and the supplier, the sampling plan as given in Appendix A shall be followed. For further information, reference may be made to IS : 2500 (Part 1)-1973 'Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (*first revision*)'.

APPENDIX A

(*Clause 8*)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1. Scale of Sampling

A-1.1 Lot — All the dissecting trays of the same size and type produced under similar conditions from the same raw material shall constitute a lot.

A-2. Number of Tests — The number of dissecting trays to be selected from each lot for testing shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 2.

TABLE 2 SAMPLING SIZE AND CRITERIA FOR CONFORMITY

Lot Size	Sampling Size	Acceptance Number
(1)	(2)	(3)
Up to 25	5	0
26 to 50	8	0
51 to 100	13	1
101 to 150	20	1
151 to 300	32	2
301 and above	50	3

A-2.1 These dissecting trays shall be selected from the lot at random and in order to ensure the randomness of selection procedures given in IS : 4905 - 1968 'Methods for random sampling' may be followed.

A-3. Criteria for Conformity

A-3.1 The number of trays selected for dimensions (*see* Table 1), general requirements (5.1 and 5.2), and workmanship and finish (6.1 and 6.2) shall be considered as conforming to these requirements if the number of defectives found in the sample is less than or equal to the corresponding acceptance number of defectives as given in col 3 of Table 2.

EXPLANATORY NOTE

This standard is one of a series of Indian Standards relating to educational instruments/equipments. This standard is based on the prevalent trade practices being followed in the country.